

PRODUCING CHEMICAL PLANT METABOLITES BY SUSPENSION CULTURE

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Abstract

1387821 Producing plant metabolites AMERICAN CYANAMID CO 4 May 1972 [18 May 1971] 15626/71 Heading C6F Undifferentiated cells or cell clusters of a plant known to elaborate a desired metabolite are transferred from a first aqueous aerobic nutrient medium to a second such medium but of lower auxin activity and culturing to produce organ primordia which are cultivated to produce the metabolite. The second medium, of lower auxin activity, may be achieved by reducing the auxin activity of the first medium, e.g. a) by dilution with equal parts of a fresh medium having no auxin activity, or b) by inclusion in the first medium of an auxin active substance which is metabolically unstable and decays to produce the second medium in situ or c) by adding an anti-auxin substance to the first medium, or it may be achieved by providing a second medium to which the cells are transferred. The second medium may be auxin free. The media are preferably maintained at 15-35 C during cell growth and redifferentiation. A number of substances which provide auxin activity are specified.

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